STATUS OF THE CLAIMS:

The listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

Claims 1-25 (cancelled)

26. (Previously presented) A method for providing a customer with service information via a terminal connected to a telecommunication network, the method comprising:

multiplexing a plurality of service data in a frame format to form a service multiplex for service transmission, whereby identification and control data of the service data are located in at least one part of the multiplexed frames to be transmitted with the respective service data;

forming selection data for the selection of the service data on the basis of the identification and control data located in the service multiplex;

transmitting the selection data separately, without the actual service data of the service multiplex, to the customer terminal for displaying the selection data; and

in response to the user selecting a service displayed on a display unit, identifying the selected service on the basis of said identification and control data associated with the selected service and transmitted in multiplexed frames, and providing the customer with the identified service from the service multiplex.

27. (Previously presented) A method as claimed in claim 26, further comprising transmitting the selection data to the customer terminal via a different network than the service multiplex is transmitted.

28. (Currently amended) A method as claimed in claim [[25]] 26 , further comprising creating a service directory from said identification and control data, which service directory comprises the selection data and by which the services are presented on a display unit.

29. (Previously presented) A method as claimed in claim 28, further comprising compiling a separate service directory on the basis of said identification and control data; and transmitting said service directory to the display unit in response to said display unit connecting to a telecommunication network.

30. (Previously presented) A method as claimed in claim 28, further comprising compiling said service directory from the identification and control data of several multiplexed frames comprising a plurality of services.

31. (Previously presented) A method as claimed in claim 29, further comprising compiling said service directory from the identification and control data of several multiplexed frames comprising a plurality of services.

32. (Previously presented) A method as claimed in claim 28 or 29 or 30 or 31, further comprising updating said service directory continuously to servers operating in the telecommunication network in accordance with the predetermined multiplexed services; and transmitting said service directory to the display unit in response to said display unit establishing a connecting to said telecommunication network:

33. (Previously presented) A method as claimed in claim 26, further comprising in response to the user selecting a service displayed on the display unit, determining the telecommunication network, which is the most suitable for delivering the service; and delivering the service selected by the user from the transmitting address to the receiver via said determined telecommunication network.

34. (Previously presented) A method as claimed in claim 26, further comprising routing the selected service from the transmitting address to the receiver automatically on the basis of said identification and control data of the multiplexed frame.

35. (Previously presented) A terminal of a telecommunication network, which is arranged to receive selection data regarding a plurality of service data of a service provider for selecting a service to be transmitted to said terminal in a multiplexed form; display the selection data of the service, which selection data is formed from the identification and control data located in the multiplexed service data frames to be transmitted with the respective service data, and which selection data has been transmitted separately, without the actual service data of the service multiplex; and

in response to the user selecting a service displayed on a display unit, to identify the selected service on the basis of said identification and control data associated the selected service and transmitted in multiplexed frames, and to provide the customer with the identification service from the service multiplex.

36. (Previously presented) A terminal as claimed in claim 35, wherein the terminal is arranged to receive the selection data via a different network than the service multiplex is transmitted.

37. (Previously presented) A terminal as claimed in claim 35, wherein for forming the selection data of the service, the terminal is arranged to receive the service directory comprising the selection data and formed from the identification and control data.

38. (Previously presented) A terminal as claimed in claim 35, wherein the terminal is a television or a computer.

39. (Previously presented) A system for providing a customer with service via a terminal connected to a telecommunication network, comprising

a multiplexer multiplexing a plurality of service data in a frame format to form a service multiplex for service transmission, whereby identification and control data of the service data are located in at least one part of the multiplexed frames to be transmitted at the same time with the respective service data;

a data generator automatically generating a combined service selection data for enabling a selection of said plurality of services available in the multiplex, said combined service selection data being automatically derived from the identification and control data of the service multiplex; and

transmitter transmitting the combined service selection data, independently from the transmission of the corresponding service data and the associated identification and control data in the multiplexed frames, to a customer terminal to be displayed in form of a combined service section list of said plurality of services available in the multiplex, whereby the customer terminal, in response to the user selecting a service on said combined service selection list, automatically identifies and provides to the customer the selected services using service data from those subsequently received multiplexed frames which contain identification and control data matching to the service selection data associated with the selected service.

40. (Previously presented) A method for providing a customer with service via a terminal connected to a telecommunication network, the method comprising

multiplexing a plurality of service data in a frame format to form a service multiplex for service transmission, whereby identification and control data of the service data are located in at least one part of the multiplexed frames to be transmitted at the same time with the respective service data;

automatically generating a combined service selection data for the selection of the service data from the basis of the identification and control data located in the service multiplex;

transmitting the service selection data separately, from the transmission of the actual service data of the service multiplex and the associated identification and control data in the multiplexed frames, to a customer terminal for displaying the service selection data;

transmitting the service data and the identification and control data of the service data in multiplexed frames to the customer terminal; and

in response to the user selecting a service displayed on a display unit, providing the customer with the selected service from those subsequently received multiplexed frames

identified by identification and control data corresponding to the service selection data of the selected service.

41. (New) A method according to claim 26, further comprising forming automatically the selection data for selection of the service on the basis of the identification and control data located in the service multiplex.

42. (New) A method according to claim 26, further comprising presenting the services on the display unit in a form of a icon.

43. (New) A method for providing a customer with service via a terminal connected to a network, the method comprising

multiplexing a plurality of service data in a frame format to form a service multiplex for service transmission, whereby identification and control data of the service data are located in at least one part of the multiplexed frames to be transmitted at the same time with the respective service data over a broadcast network to said terminal;

generating service selection data for the selection of the service data from the basis of the identification and control data located in the service multiplex;

transmitting the service selection data separately through a data network, independently from transmission of the actual service data of the service multiplex and the associated identification and control data in the multiplexed frames in said broadcast network, to the customer terminal for displaying the service selection data;

transmitting the service data and the identification and control data of the service data in multiplexed frames to the customer terminal over said broadcast network; and

in response to the user selecting a service displayed on a display unit, providing the customer with the selected service from those multiplexed frames subsequently received over said broadcast network and containing identification and control data matching to the selected service's services selection data obtained through said data network.